

What is claimed is:

1. An apparatus for detecting holographic data reproduced from a holographic medium, wherein the holographic medium has an interference pattern and the holographic data is reproduced when a first portion of a reference beam is diffracted by the interference pattern within the holographic medium, comprising:

a transmission beam detector for detecting a temporal light intensity of a transmission beam which is a second portion of the reference beam, wherein the transmission beam is not diffracted to reproduce the holographic data and passes through the holographic medium;

a CCD (charge coupled device) controller for generating a driving signal in accordance with the detected light intensity; and

a CCD for detecting the holographic data in response to the driving signal.

2. The apparatus of claim 1, wherein the CCD controller generates the driving signal when the temporal light intensity of the transmission beam falls below a threshold value.

3. The apparatus of claim 1, wherein the CCD controller generates the driving signal in a predetermined time after

the temporal light intensity of the transmission beam falls below a threshold value.

4. The apparatus of claim 1, wherein the CCD captures the
5 holographic data on receiving the driving signal.

5. The apparatus of claim 1, wherein the temporal light intensity of the transmission beam forms a periodical curve over time.

10

6. An apparatus for reconstructing holographic data, comprising:

a light source for generating a laser beam;

a beam splitter for splitting the laser beam into a
15 reference beam and a signal beam;

a holographic medium for storing an interference pattern generated through an interference of the reference beam with the signal beam; and

a detecting unit for detecting the holographic data
20 reproduced from the holographic medium based on a transmission beam which is not diffracted by the interference pattern to reproduce the holographic data and passes through the holographic medium.

25 7. The apparatus of claim 6, wherein the detecting unit includes:

a transmission beam detector for detecting a temporal light intensity of the transmission beam;

a CCD controller for generating a driving signal in accordance with the detected light intensity; and

5 a CCD for detecting the holographic data in response to the driving signal.

8. The apparatus of claim 7, wherein the CCD controller generates the driving signal when the temporal light
10 intensity of the transmission beam falls below a threshold value.

9. The apparatus of claim 7, wherein the CCD controller generates the driving signal in a predetermined time after
15 the temporal light intensity of the transmission beam falls below a threshold value.

10. The apparatus of claim 7, wherein the CCD captures the holographic data on receiving the driving signal.

20

11. The apparatus of claim 7, wherein the temporal light intensity of the transmission beam forms a periodical curve over time.

25 12. A method for detecting holographic data reproduced from a holographic medium, wherein the holographic medium

has an interference pattern and the holographic data is reproduced when a first portion of a reference beam is diffracted by the interference pattern within the holographic medium, comprising the steps of:

5 detecting a temporal light intensity of a transmission beam which is a second portion of the reference beam, wherein the transmission beam is not diffracted to reproduce the holographic data and passes through the holographic medium;

10 generating a driving signal in accordance with the detected light intensity; and

 detecting the holographic data in response to the driving signal.

15 13. The method of claim 12, wherein the driving signal is generated when the temporal light intensity of the transmission beam falls below a threshold value.

20 14. The method of claim 12, wherein the driving signal is generated in a predetermined time after the temporal light intensity of the transmission beam falls below a threshold value.

25 15. The method of claim 12, wherein the holographic data are captured on the driving signal being received.

16. The method of claim 12, wherein the temporal light intensity of the transmission beam forms a periodical curve over time.